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Gln Trp His Lys Pro Ser Asp Ala Asp Pro Arg Leu Ala Pro Phe Gln 145 150 155 160

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Ala Gly Phe Ala Gly Ala Glu Glu Asp Glu Asp Glu Gln Val Ser Ala 165 170 175

Val Xaa Gly Ala Gly Ser Leu Ile His Ser Glu Pro Pro Lys Gly Glu 180 185 190

His Lys Lys Thr Ser Gln Ala Leu Glu Pro Trp His Ala His Leu Arg 195 200 205 Met Val Asp Gln Phe Ala Ser Phe Pro Ala Leu Lys Gln His Gly Ala 210 215 220

Ser Ser Pro Leu Leu Pro Phe Pro Phe Ala Cys Glu Ile Leu Xaa Arg 225 230 235 240

Asn Cys Pro Gly Thr Leu Gln Thr Cys Cys Leu Lys Cys Thr Ala Gln
245 250 255

Gln Pro Leu Ser Cys Cys Leu Pro Arg His 260 265

<210> 7

<211> 307

<212> PRT

<213> Drosophila melanogaster

<400> 7

Ser Asn Val His Phe Leu His Leu Asn Ala Tyr Glu Leu Ala Ile Gln
1 5 10 15

Leu Thr Leu Gln Asp Phe Ala Asn Phe Arg Gln Ile Glu Ser Thr Glu 20 25 30

Tyr Val Asp Glu Leu Phe Glu Leu Arg Ser Arg Tyr Gly Val Pro Met 35 40 45

Leu Ser Lys Phe Ala Glu Leu Val Asn Arg Glu Met Phe Trp Val Val 50 55 60

Ser Glu Ile Cys Ala Glu His Asn Ile Val Arg Arg Met Lys Ile Val 65 70 75 80

Lys Gln Phe Ile Lys Ile Ala Arg His Cys Lys Glu Cys Arg Asn Phe 85 90 95

Asn Ser Met Phe Ala Ile Val Ser Gly Leu Gly His Gly Ala Val Ser 100 105 110

Arg Leu Arg Gln Thr Trp Glu Lys Leu Pro Ser Lys Tyr Gln Arg Leu 115 120 125

Phe Asn Asp Leu Gln Asp Leu Met Asp Pro Ser Arg Asn Met Ser Lys 130 135 140

Tyr Arg Gln Leu Val Ser Ala Glu Leu Leu Ala Gln His Pro Ile Ile 145 150 155 160

Pro Phe Tyr Pro Ile Val Lys Lys Asp Leu Thr Phe Ile His Leu Gly
165 170 175

Asn Asp Thr Arg Val Asp Gly Leu Val Asn Phe Glu Lys Leu Arg Met 180 185 190

Leu Ala Lys Glu Val Arg Leu Leu Thr His Met Cys Ser Ser Pro Tyr

195 200 205

Asp Leu Leu Ser Ile Leu Glu Leu Lys Gly Gln Ser Pro Ser Asn Ala 210 215 220

Leu Phe Ser Leu Asn Gln Met Ser Ala Ser Gln Ser Asn Ala Ala 225 230 235 240

Gly Thr Val Ile Ala Ala Asn Ala Gly Gln Ala Thr Ile Lys Arg Arg 245 250 255

Lys Lys Ser Thr Ala Ala Pro Asn Pro Lys Lys Met Phe Glu Glu Ala 260 265 270

Gln Met Val Arg Arg Val Lys Ala Tyr Leu Asn Ser Leu Lys Ile Leu 275 280 285

Ser Asp Glu Asp Leu Leu His Lys Phe Ser Leu Glu Cys Glu Pro Ala 290 295 300

His Gly Ser

<210> 8

<211> 270

<212> PRT

<213> Homo sapiens

<400> 8

Ser Ala Glu Gly Leu Asp Leu Val Ser Ala Lys Asp Leu Ala Gly Gln
1 5 10 15

Leu Thr Asp His Asp Trp Ser Leu Phe Asn Ser Ile His Gln Val Glu 20 25 30

Leu Ile His Tyr Val Leu Gly Pro Gln His Leu Arg Asp Val Thr Thr 35 40 45

Ala Asn Leu Glu Arg Phe Met Arg Arg Phe Asn Glu Leu Gln Tyr Trp 50 55 60

Val Ala Thr Glu Leu Cys Leu Cys Pro Val Pro Gly Pro Arg Ala Gln
65 70 75 80

Leu Leu Arg Lys Phe Ile Lys Leu Ala Ala His Leu Lys Glu Gln Lys 85 90 95

Asn Leu Asn Ser Phe Phe Ala Val Met Phe Gly Leu Ser Asn Ser Ala 100 105 110

Ile Ser Arg Leu Ala His Thr Trp Glu Arg Leu Pro His Lys Val Arg 115 120 125

Lys Leu Tyr Ser Ala Leu Glu Arg Leu Leu Asp Pro Ser Trp Asn His 130 135 140 Arg Val Tyr Arg Leu Ala Leu Ala Lys Leu Ser Pro Pro Val Ile Pro 155 Phe Met Pro Leu Leu Lys Asp Met Thr Phe Ile His Glu Gly Asn 170 His Thr Leu Val Glu Asn Leu Ile Asn Phe Glu Lys Met Arg Met Met 185 Ala Arg Ala Arg Met Leu His His Cys Arg Ser His Asn Pro Val 195 200 Pro Leu Ser Pro Leu Arg Ser Arg Val Ser His Leu His Glu Asp Ser 215 220 Gln Val Ala Arg Ile Ser Thr Cys Ser Glu Gln Ser Leu Ser Thr Arg 235 Ser Pro Ala Ser Thr Trp Ala Tyr Val Gln Gln Leu Lys Val Ile Asp Asn Gln Arg Glu Leu Ser Arg Leu Ser Arg Glu Leu Glu Pro <210> 9 <211> 244 <212> PRT <213> Mus musculus Lys Ala Glu Cys Phe Glu Thr Leu Ser Ala Met Glu Leu Ala Glu Gln Ile Thr Leu Leu Asp His Ile Val Phe Arg Ser Ile Pro Tyr Glu Glu 25 Phe Leu Gly Gln Gly Trp Met Lys Leu Asp Lys Asn Glu Arg Thr Pro 35 Tyr Ile Met Lys Thr Ser Gln His Phe Asn Glu Met Ser Asn Leu Val Ala Ser Gln Ile Met Asn Tyr Ala Asp Ile Ser Ser Arg Pro Asn Ala 75

Ile Glu Lys Trp Val Ala Val Ala Asp Ile Cys Arg Cys Leu His Asn 90 95

Tyr Asn Gly Val Leu Glu Ile Thr Ser Ala Leu Asn Arg Ser Pro Ile 100

Tyr Arg Leu Lys Lys Thr Trp Ala Lys Val Ser Lys Gln Thr Lys Ala 115

Leu Met Asp Lys Leu Gln Lys Thr Val Ser Ser Glu Gly Arg Phe Lys

Leu Met Asp Lys Leu Gln Lys Thr Val Ser Ser Glu Gly Arg Phe Lys 130 135 140 Asn Leu Arg Glu Thr Leu Lys Asn Cys Asn Pro Pro Ala Val Pro Tyr 145 150 155 160

Leu Gly Met Tyr Leu Thr Asp Leu Ala Phe Ile Glu Glu Gly Thr Pro 165 170 175

Asn Phe Thr Glu Glu Gly Leu Val Asn Phe Ser Lys Met Arg Met Ile 180 185 190

Ser His Ile Ile Arg Glu Ile Arg Gln Phe Gln Gln Thr Ala Tyr Arg 195 200 205

Ile Asp Gln Gln Pro Lys Val Ile Gln Tyr Leu Leu Asp Lys Ala Leu 210 215 220

Val Ile Asp Glu Asp Ser Leu Tyr Glu Leu Ser Leu Lys Ile Glu Pro 225 230 235 240

Arg Leu Pro Ala

<210> 10

<211> 249

<212> PRT

<213> Homo sapiens

<400> 10

Asp Glu Ile Thr Leu Leu Thr Leu His Pro Leu Glu Leu Ala Arg Gln
1 5 10 15

Leu Thr Leu Leu Glu Phe Glu Met Tyr Lys Asn Val Lys Pro Ser Glu 20 25 30

Leu Val Gly Ser Pro Trp Thr Lys Lys Asp Lys Glu Val Lys Ser Pro 35 40 45

Asn Leu Leu Lys Ile Met Lys His Thr Thr Asn Val Thr Arg Trp Ile 50 55 60

Glu Lys Ser Ile Thr Glu Ala Glu Asn Tyr Glu Glu Arg Leu Ala Ile 65 70 75 80

Met Gln Arg Ala Ile Glu Val Met Met Val Met Leu Glu Leu Asn Asn 85 90 95

Phe Asn Gly Ile Leu Ser Ile Val Ala Ala Met Gly Thr Ala Ser Val
100 105 110

Tyr Arg Leu Arg Trp Thr Phe Gln Gly Leu Pro Glu Arg Tyr Arg Lys
115 120 125

Phe Leu Glu Glu Cys Arg Glu Leu Ser Asp Asp His Leu Lys Lys Tyr 130 135 140

Gln Glu Arg Leu Arg Ser Ile Asn Pro Pro Cys Val Pro Phe Phe Gly

145 150 155 160 Arg Tyr Leu Thr Asn Ile Leu His Leu Glu Glu Gly Asn Pro Asp Leu 165 170 Leu Ala Asn Thr Glu Leu Ile Asn Phe Ser Lys Arg Arg Lys Val Ala 185 Glu Ile Ile Gly Glu Ile Gln Gln Tyr Gln Asn Gln Pro Tyr Cys Leu 200 Asn Glu Glu Ser Thr Ile Arg Gln Phe Phe Glu Gln Leu Asp Pro Phe 210 215 Asn Gly Leu Ser Asp Lys Gln Met Ser Asp Tyr Leu Tyr Asn Glu Ser 230 235 Leu Arg Ile Glu Pro Arg Gly Cys Lys 245 <210> 11 <211> 243

<212> PRT <213> Homo sapiens

<400> 11

Val Ser Leu Leu Phe Asp His Leu Glu Pro Glu Glu Leu Ser Glu His

Leu Thr Tyr Leu Glu Phe Lys Ser Phe Arg Arg Ile Ser Phe Ser Asp 25

Tyr Gln Asn Tyr Leu Val Asn Ser Cys Val Lys Glu Asn Pro Thr Met

Glu Arg Ser Ile Ala Leu Cys Asn Gly Ile Ser Gln Trp Val Gln Leu 55

Met Val Leu Ser Arg Pro Thr Pro Gln Leu Arg Ala Glu Val Phe Ile 65

Lys Phe Ile Gln Val Ala Gln Lys Leu His Gln Leu Gln Asn Phe Asn

Thr Leu Met Ala Val Ile Gly Gly Leu Cys His Ser Ser Ile Ser Arg 100 105

Leu Lys Glu Thr Ser Ser His Val Pro His Glu Ile Asn Lys Val Leu 115

Gly Glu Met Thr Glu Leu Leu Ser Ser Ser Arg Asn Tyr Asp Asn Tyr 135

Arg Arg Ala Tyr Gly Glu Cys Thr Asp Phe Lys Ile Pro Ile Leu Gly 145 150 155

Val His Leu Lys Asp Leu Ile Ser Leu Tyr Glu Ala Met Pro Asp Tyr 165 170 175

Leu Glu Asp Gly Lys Val Asn Val His Lys Leu Leu Ala Leu Tyr Asn 180 185 190

His Ile Ser Glu Leu Val Gln Leu Gln Glu Val Ala Pro Pro Leu Glu 195 200 205

Ala Asn Lys Asp Leu Val His Leu Leu Thr Leu Ser Leu Asp Leu Tyr 210 215 220

Tyr Thr Glu Asp Glu Ile Tyr Glu Leu Ser Tyr Ala Arg Glu Pro Arg 225 230 235 240

Asn His Arg

<210> 12

<211> 48

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: unavailable

<400> 12

Ile Arg Gly Gly Thr Lys Glu Ala Leu Ile Glu His Leu Thr Ser His

1 5 10 15

Glu Leu Val Asp Ala Ala Phe Asn Val Thr Met Leu Ile Thr Phe Arg 20 25 30

Ser Ile Leu Thr Thr Arg Glu Phe Phe Tyr Ala Leu Ile Tyr Arg Tyr 35 40 45

<210> 13

<211> 47

<212> PRT

<213> Mus musculus

<400> 13

Ile Lys Gly Gly Thr Val Val Lys Leu Ile Glu Arg Leu Thr Tyr His 1 5 10 15

Met Tyr Ala Asp Pro Asn Phe Val Arg Thr Phe Leu Thr Tyr Arg Ser 20 25 30

Phe Cys Lys Gln Glu Leu Leu Asn Leu Leu Ile Glu Arg Phe Glu 35 40 45

```
<210> 14
<211> 48
<212> PRT
<213> Mus musculus
<400> 14
Ile Arg Tyr Ala Ser Val Glu Ala Leu Leu Glu Arg Leu Thr Asp Leu
Arg Phe Leu Ser Ile Asp Phe Leu Asn Thr Phe Leu His Thr Tyr Arg
Ile Phe Thr Thr Ala Thr Val Val Leu Ala Lys Leu Ser Asp Ile Tyr
                             40
<210> 15
<211> 50
<212> PRT
<213> Unknown Organism
<220>
<223> Description of Unknown Organism: unavailable
<400> 15
Val Val Lys Phe Ala Ser Leu Asn Lys Leu Val Glu His Leu Thr His
                  5
Asp Ser Lys His Asp Leu Gln Phe Leu Lys Thr Phe Leu Met Thr Tyr
Gln Ser Phe Cys Thr Pro Glu Lys Leu Met Ser Lys Leu Gln Gln Arg
Tyr Xaa
     50
<210> 16
<211> 77
<212> PRT
<213> Drosophila melanogaster
<400> 16
Leu Thr Arg Ser Ser Arg Asp Glu Pro Leu Asn Phe Arg Ile Val Gly
Gly Tyr Glu Leu Arg Gly Val Ala Ile Ala Thr Gly Asn Ala Ala Val
Gly Ile Tyr Ile Ser His Val Glu Pro Gly Ser Lys Ala Gln Asp Val
```

Gly Leu Lys Arg Gly Asp Gln Ile His Glu Val Asn Gly Gln Ser Leu

```
Asp His Val Thr Ser Lys Arg Ala Leu Glu Ile Leu Thr 65 70 75
```

<210> 17

<211> 71

<212> PRT

<213> Homo sapiens

<400> 17

Asn Leu Lys Lys Asp Ala Lys Tyr Gly Leu Gly Phe Gln Ile Ile Gly
1 5 10 15

Gly Glu Lys Met Gly Arg Leu Asp Leu Gly Ile Phe Ile Ser Ser Val 20 25 30

Ala Pro Gly Gly Pro Ala Asp Leu Asp Gly Cys Leu Lys Pro Gly Asp 35 40 45

Arg Leu Ile Ser Val Asn Ser Val Ser Leu Glu Gly Val Ser His His 50 55 60

Ala Ala Ile Glu Ile Leu Gln 65 70

<210> 18

<211> 67

<212> PRT

<213> Homo sapiens

<400> 18

Ile Val Ile His Arg Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly
1 5 10 15

Gly Glu Asp Gly Glu Gly Ile Phe Ile Ser Phe Ile Leu Ala Gly Gly
20 25 30

Pro Ala Asp Leu Ser Gly Glu Leu Arg Lys Gly Asp Gln Ile Leu Ser 35 40 45

Val Asn Gly Val Asp Leu Arg Asn Ala Ser His Glu Gln Ala Ala Ile 50 55 60

Ala Leu Lys 65

<210> 19

<211> 68

<212> PRT

<213> Rattus rattus

<400> 19

Val Glu Leu Pro Lys Thr Glu Glu Gly Leu Gly Phe Asn Ile Met Gly

	65															
	-216	0> 20	n													
		1> 69														
		2> PI														
				sapi	ens											
	<400	0> 20	0													
	Val 1	Lys	Val	Gln	Lys 5	Gly	Ser	Glu	Pro	Leu 10	Gly	Ile	Ser	Ile	Val 15	Ser
o O U	Gly	Glu	Lys	Gly 20	Gly	Ile	Tyr	Val	Ser 25	Lys	Val	Thr	Val	Gly 30	Ser	Ile
i 10	Ala	His	Gln 35	Ala	Gly	Leu	Glu	Tyr 40	Gly	Asp	Gln	Leu	Leu 45	Glu	Phe	Asn
	Gly	Ile 50	Asn	Leu	Arg	Ser	Ala 55	Thr	Glu	Gln	Gln	Ala 60	Arg	Leu	Ile	Ile
loji ini eni eni eni eni eni eni eni eni en	Gly 65															
	-210)> 2:	ı													
		l> 98	_													
		2> PF														
				phila	a me]	lanog	gaste	er								
	<400)> 21	L													
	Met 1	Val	Phe	Ala	Val 5	Val	Asp	Lys	Ala	Gly 10	Thr	Val	Val	Met	Ser 15	Asp

10

Gly Lys Glu Gln Asn Ser Pro Ile Tyr Ile Ser Arg Ile Ile Pro Gly 25

Gly Ile Ala Asp Arg His Gly Gly Leu Lys Arg Gly Asp Gln Leu Leu 40

Ser Val Asn Gly Val Ser Val Glu Gly Glu His His Glu Lys Ala Val

Gly Glu Glu Leu Asp Ser Trp Ser Val Leu Ile Asn Gly Ala Val Glu

Ile Glu His Ala Asn Gly Ser Arg Glu Glu Leu Gln Met Gly Asp Ser 40

Phe Gly Ile Leu Pro Thr Met Asp Lys Leu Tyr His Arg Gly Val Met

Arg Thr Lys Cys Asp Asp Cys Gln Phe Val Cys Ile Thr Gln Thr Asp

70

15

50

1

Glu Leu Leu Lys

Tyr Tyr Arg Ile Gln His Gln Gly Glu Glu Asn Thr Arg Arg His Glu
85 90 95

Asp Glu

<210> 22

<211> 99

<212> PRT

<213> Homo sapiens

<400> 22

Leu Leu Phe Glu Pro His Ser Lys Ala Gly Thr Val Leu Phe Ser Gln
1 5 10 15

Gly Asp Lys Gly Thr Ser Trp Tyr Ile Ile Trp Lys Gly Ser Val Asn 20 25 30

Val Val Thr His Gly Lys Gly Leu Val Thr Thr Leu His Glu Gly Asp 35 40 45

Asp Phe Gly Gln Leu Ala Leu Val Asn Asp Ala Pro Arg Ala Ala Thr 50 55 60

Ile Ile Leu Arg Glu Asp Asn Cys His Phe Leu Arg Val Asp Lys Gln 65 70 75 80

Asp Phe Asn Arg Ile Ile Lys Asp Val Glu Ala Lys Thr Met Arg Leu 85 90 95

Glu Glu His

<210> 23

<211> 97

<212> PRT

<213> Homo sapiens

<400> 23

Ala Met Phe Pro Val Thr His Ile Ala Gly Glu Thr Val Ile Gln Gln 1 5 10 15

Gly Asn Glu Gly Asp Asn Phe Tyr Val Val Asp Gln Gly Glu Val Asp 20 25 30

Val Tyr Val Asn Gly Glu Trp Val Thr Asn Ile Ser Glu Gly Gly Ser 35 40 45

Phe Gly Glu Leu Ala Leu Ile Tyr Gly Thr Pro Arg Ala Ala Thr Val 50 55 60

Lys Ala Lys Thr Asp Leu Lys Leu Trp Gly Ile Asp Arg Asp Ser Tyr
65 70 75 80

Arg Arg Ile Leu Met Gly Ser Thr Leu Arg Lys Arg Lys Met Tyr Glu 85 90 95

Glu

<210> 24

<211> 97

<212> PRT

<213> Homo sapiens

<400> 24

Cys Met Tyr Gly Arg Asn Tyr Gln Gln Gly Ser Tyr Ile Ile Lys Gln
1 5 10 15

Gly Glu Pro Gly Asn His Ile Phe Val Leu Ala Glu Gly Arg Leu Glu 20 25 30

Val Phe Gln Gly Glu Lys Leu Leu Ser Ser Ile Pro Met Trp Thr Thr 35 40 45

Phe Gly Glu Leu Ala Ile Leu Tyr Asn Cys Thr Arg Thr Ala Ser Val 50 55 60

Lys Ala Ile Thr Asn Val Lys Thr Trp Ala Leu Asp Arg Glu Val Phe 65 70 75 80

Gln Asn Ile Met Arg Arg Thr Ala Gln Ala Arg Asp Glu Gln Tyr Arg 85 90 95

Asn

<210> 25

<211> 103

<212> PRT

<213> Mus musculus

<400> 25

Arg Leu Arg Ser Val Val Tyr Leu Pro Asn Asp Tyr Val Cys Lys Lys 1 5 10 15

Gly Glu Ile Gly Arg Glu Met Tyr Ile Ile Gln Ala Gly Gln Val Gln
20 25 30

Val Leu Gly Gly Pro Asp Gly Lys Ser Val Leu Val Thr Leu Lys Ala 35 40 45

Gly Ser Val Phe Gly Glu Ile Ser Leu Leu Ala Val Gly Gly Asn 50 55 60

Arg Arg Thr Ala Asn Val Val Ala His Gly Phe Thr Asn Leu Phe Ile
65 70 75 80

Leu Asp Lys Lys Asp Leu Asn Glu Ile Leu Val His Tyr Pro Glu Ser

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Gln Lys Leu Leu Arg Lys Lys 100

<210> 26

<211> 91

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: unavailable

<400> 26

Arg Glu Asp Phe Glu Ile Ile Arg Val Phe Asp Gly Asn Asn Ser Tyr

1 5 10 15

Arg Ser Gln Ile Ser Arg Asn Ile Val Val Ala Lys His Val Ser Val
20 25 30

Gln Gln Val Arg Asp Ala Ala Leu Arg Arg Phe His Ile Asn Asp Thr 35 40 45

Pro Glu Arg Tyr Tyr Ile Thr Gln Val Val Glu Val Glu Glu Glu 50 55 60

Ile Leu Glu Asp Pro Val Pro Leu Arg Asn Val Lys Arg Pro Glu Gly 65 70 75 80

Lys Arg Ala Gln Ile Phe Ile Arg Tyr Tyr Asp
85 90

<210> 27

<211> 129

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: unavailable

<400> 27

Ser Ile Leu Val Thr Ser Gln Asp Lys Ala Pro Ser Val Ile Ser Arg
1 5 10 15

Val Leu Lys Lys Asn Asn Arg Asp Ser Ala Val Ala Ser Glu Tyr Glu 20 25 30

Leu Val Gln Leu Leu Pro Gly Glu Arg Glu Leu Thr Ile Pro Ala Ser 35 40 45

Ala Asn Val Phe Tyr Ala Met Asp Gly Ala Ser His Asp Phe Leu Leu 50 55 60

Arg His Gly Glu Gly Pro Leu Leu Leu His Leu Ala Ser Pro Val Ala 65 70 75 80

Arg Leu Pro Gln Glu Leu Leu Arg Val Arg Glu Glu Gly Ala Pro Phe 85 90 95

Pro Gly Ser Arg Pro Gln Gly Gly Arg Leu His Gly His Cys Ser Glu 100 105 110

Glu Glu Ala Pro Leu Ala Tyr Arg Ser His Gly Val His Thr Arg Cys
115 120 125

Gly